

Receiving Report

Date:

13/6/28

Batch No:

M126160

Supplier:

T4708611

Dart P/O:

20295

Packing Slip: Yes ☒ No ☐

Invoice: Yes ☐ No ☒

Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐

Waybill Attached: Yes ☐ No ☒

Shipment Complete: Yes ☒ No ☐

QC6 Inspection ☒

Work Order ☐

N/A ☐

N/A ☒

N/A ☒

N/A ☐

N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
M6061T6S-080		336	0	1	336	
M6061T6S-040		384	0	0	384	
						<u>C</u>

Initials of receiver (if shipment OK) Level 12

Production/Admin:

Date

Received/Costing

Initial

13/6/28
[Signature]

Location

Purchase Order Receipt Listing

Friday, June 28, 2013 9:10:04 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO20295 Receipt Dates from 6/28/2013 to 6/28/2013 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO20295	1		M6061T6B0.500X02. f 000		6/28/2013	6/28/2013	12.0000	\$2.41	0.0000	0	\$28.94
CAD	No		6061-T6 Bar .500 x 2.00	f	12.0000	DESJ02		\$28.94	0.0000	0	
			M126160								
	2		M6061T6B0.500X02. f 500	f	6/28/2013	6/28/2013	12.0000	\$2.89	0.0000	0	\$34.72
	No		6061-T6 Bar .500 x 2.50	f	12.0000	DESJ02		\$34.72	0.0000	0	
			M126160								
	3		M6061T6B1.000X02. f 000	f	6/28/2013	6/28/2013	24.0000	\$4.44	0.0000	0	\$106.48
	No		6061-T6 Bar 1.00 x 2.00	f	24.0000	DESJ02		\$106.48	0.0000	0	
			M126160								
	4		M6061T6B1.000X04. f 000	f	6/28/2013	6/28/2013	24.0000	\$8.63	0.0000	0	\$207.17
	No		6061-T6 Bar 1.00 x 4.00	f	24.0000	DESJ02		\$207.17	0.0000	0	
			M126160								
	5		M6061T6B1.000X06. f 000	f	6/28/2013	6/28/2013	12.0000	\$13.91	0.0000	0	\$166.90
	No		6061T6 BAR 1.00 X 6.00	f	12.0000	DESJ02		\$166.90	0.0000	0	
			M126160								
	6		M6061T6B1.250X04. f 500	f	6/28/2013	6/28/2013	24.0000	\$13.44	0.0000	0	\$322.53
	No		6061-T6 Bar 1.25 X 4.50	f	24.0000	DESJ02		\$322.53	0.0000	0	
			M126160								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO20295	7		M6061T6B2.000X04. f 500		6/28/2013	6/28/2013	12.0000	\$24.80	0.0000	0	\$297.62
CAD	No		6061T6 Bar 2.00 x 4.500 M126160	f	12.0000	DES102		\$297.62	0.0000	0	
Total Received Quantity:											
Total Qty to Inspect (PO U/M):											
Total Reject Quantity:											
Total Receipt Value:											
Total Balance Due Quantity:											
120.0000											
0.0000											
0.0000											
\$1,164.36											
0.0000											

27

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

B I L L O F L A D I N G

No: PEC 829158
Ship Date 26Jun13 at 7:52 From PFW
Probill
Via VIM TRANSER TRUCK
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-580848- 1 Your PO # 20295
ALUMINUM FLAT BAR 6061-T6511
.50" x 2.00" X 144.0000"

Heat Number 201311221
Tag No 193047

Quantity 12 FT ✓ PCS 1 Wt LBS 14

MTR

2) Our Order PEC-580848- 2 Your PO # 20295
ALUMINUM FLAT BAR 6061-T6511
.50" x 2.50" X 144.0000"

Heat Number 21288872
Tag No 193048

Quantity 12 FT ✓ PCS 1 Wt LBS 17

MTR

3) Our Order PEC-580848- 3 Your PO # 20295
ALUMINUM FLAT BAR 6061-T6511
1.00" x 2.00" X 144.0000"

Heat Number 201305462
Tag No 193049

Quantity 24 FT ✓ PCS 2 Wt LBS 57

MTR

4) Our Order PEC-580848- 4 Your PO # 20295
ALUMINUM FLAT BAR 6061-T6511
1.00" x 4.00" X 144.0000"

Heat Number 20028
Tag No 193050

Quantity 24 FT ✓ PCS 2 Wt LBS 114

MTR

5) Our Order PEC-580848- 5 Your PO # 20295
ALUMINUM FLAT BAR 6061-T6511
1.00" x 6.00" X 144.0000"

Heat Number 201306967
Tag No 193051

Quantity 12 FT ✓ PCS 1 Wt LBS 85

MTR

Page: 1Continued

Handwritten signature and initials

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTEES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

B I L L O F L A D I N G

No: PEC 829158

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 26Jun13 at 7:52 From PFW
 Probill
 Via VIM TRANSER TRUCK
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-580848- 6 Your PO # 20295
 Part # OFFERING Rel #

ALUMINUM FLAT BAR 6061-T6511
 1.250" x 5.00" X 144.0000"

Heat Number Tag No
 201310704 193052

Quantity
 24 FT

PCS
 2

Wt LBS
 175

MTR

7) Our Order PEC-580848- 7 Your PO # 20295

ALUMINUM FLAT BAR 6061-T6511
 2.00" x 5.00" X 144.0000"

Heat Number Tag No
 Z00657003 193053

Quantity
 12 FT

PCS
 1

Wt LBS
 140

MTR

TOTAL:

Tags
 7

PCS
 10

LBS
 602

Heat Number
 20028
 201305462
 201306967
 201310704
 201311221
 21288872
 Z00657003

*** Chemical Analysis ***

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL ITEMS (1,2,3,4,5,6,7) 1 BDL G.W. 622 LBS

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

B I L L O F L A D I N G

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 829158
Ship Date 26Jun13 at 7:52 From PFW
Probill
Via VIM TRANSER TRUCK
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 3 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001


THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511
50" x 2.00" x 144.0000"
PART NO.

PO/Rel 20295

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: 

Certificate of Mill Test Results
BL PEC-829158-001
26Jun13
Pg 1/1



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
177642	3

BAL TO
ThyssenKrupp Materials NA
SHIP TO
ThyssenKrupp Materials NA, Toronto
Quantity Certified 1.270 lbs 90 pcs

MANIFEST NUMBER
191963
CUSTOMER PO
PEC-248822
CUSTOMER PART NUMBER
RB0096
DIE NUMBER
RB0096
DATE OF SHIPMENT
6/3/2013
SALES PERSON
David Schroeder

CERTIFICATION
ASTM-B221-12a StencilCont
SPECIFICATION
AMS-QQA-200/8 - 1997



We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511
also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	6	201311221	min 42.60 max 47.20	min 39.10 max 44.50	min 11.20 max 17.35

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source
2BU147	6061	0.61	0.12	0.20	0.03	0.85	0.06	0.01	0.01	98.11	0.05	0.15	Canada
2BU294	6061	0.63	0.11	0.20	0.03	0.85	0.06	0.01	0.01	98.10	0.05	0.15	Canada

Print Date: 6/3/2013

Calvin J. Williams, Director of Quality & Technical Services

Rev. 9/23/11 - UMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
50" x 2.50" x 144.0000"

PART NO.

PO/Rel 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

[Signature]

Certificate of Mill Test Results

BL PEC-829158-002

26Jun13
Pg 1/3

sapa

Sapa Industrial Extrusions
53 POTTSVILLE STREET
CRESSONA, PA
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC
2821 LANGSTAFF ROAD
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K 5C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC
2821 LANGSTAFF ROAD

CONCORD, ON - L4K5C6

Certified Inspection Report

Sales Order Number	Line No.	Customer PO	Cert Number	Page
1100598155	4	PEC-247872-4	SAPA/57768	1 of 3
			Cert Creation Date	Cert Print Date
			02-MAY-13	02-MAY-13

Quantity Shipped	Unit	Date Shipped	Item Description	Specification
2397	LB	02-MAY-13	Extruded Rectangular Bar 0.500 TK x 2.500 W READ	ASTM B221 REV 12A AMS-QQ-A-2008 REV 1997
W/L		Item No.	144.000 IN LN FIN B-MTL	ASME B221 REV 09 UNSH#A9604 REV
424721		CO3361828	W/P 1.57 F04 CS 2.5 6061/T6511	
Delivery Id		Item No. Rev	Marking CONTINUOUS	
4422621				
Customer Part No.				
5X2.5				

Applicable Specifications, Deviations and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

William T. Martin, III

William Martin, III

Tech/Quality Manager

02-MAY-13

Legal Statement

We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Quantities per Lot / Packages	Lot Number	Quantity	UOM	Weight
Package Number				
G12-PKG1839570	21288872	40	PCS	711
G12-PKG1928652	21391318	32	PCS	570
G12-PKG1928672	21391318	30	PCS	535
G12-PKG1928672	21391318	-	-	-
G12-PKG1934198	21397829	34	PCS	605
				599

Composition Limits

PO/Rel 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-829158-002

26Jun13
Pg 2/3

Sapa Industrial Extrusions
53 POTTSVILLE STREET

Certified Inspection Report

Alloy	Si		P		C		Mn		Ni		Mo		Cu		Zn	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
6061	0.40	0.80	—	0.70	0.15	0.40	—	0.15	0.80	1.20	0.04	0.35	—	0.25		
Alloy	Ti		B		Fe		Other Each		Other Total							
6061	—	0.15	—	0.05	—	0.05	—	0.05	—	0.15						

Jan 28-28

Composition Results

Heat / Cast	Si	P	S	Mn	Cr	Ni	Cu	Al	Fe	Other	Total
Heat / Cast	0.62	0.27	0.23	0.04	0.92	0.06	0.02	0.02	---	Other Fe	Other Total
5001736	0.63	0.27	0.22	0.03	0.91	0.05	0.03	0.02	---	Other Fe	Other Total
5000635	0.66	0.24	0.22	0.03	0.91	0.05	0.02	0.02	---	Other Fe	Other Total
5001246	0.66	0.24	0.22	0.03	0.91	0.05	0.02	0.02	---	Other Fe	Other Total

Mechanical Property - Tensile Limits

Test Type	UTS - L	TYS - L	EL 40-Long				
10M	KSI	KSI	PCF				
10M	---	---	---				
Test Type	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
16511	4	44.4	46.3	41.6	43.9	18.2	19.2
Test Type	Test Type	UTS - L	TYS - L	EL 40-Long			
10M	10M	KSI	KSI	PCF			
10M	---	---	---	---			
Test Type	# of Tests	MIN Value	MAX Value	MIN Value	MAX Value	MIN Value	MAX Value
16511	4	44.5	46.0	41.4	43.4	17.4	18.5

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Pg 3/3

FRANKLIN D. ROOSEVELT

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511
1.00" x 2.00" x 144.0000"

PART NO.

P/O/Rel 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-829158-003
26Jun13
Pg 1/1



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
172591	6

BL L TO
ThyssenKrupp Materials NA
SHIP TO
ThyssenKrupp Materials NA, Toronto
Quantity Certified 2.056 lbs 72 pcs

INVEST NUMBER 185864
TIME NUMBER MRB0477
DATE OF SHIPMENT 4/1/2013

CUSTOMER PO PEC-247086
ALLOY/TEMPER 6061-T6511
SALES PERSON David Schroeder

CUSTOMER PART NUMBER MRB0477
DESCRIPTION MCRB 1.000x2.000

CERTIFICATION
ASTM-B221-12a StencilCont
SPECIFICATION
AMS-QQA-200/8 - 1997

Am
130628

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
5	201305462	3/21/13	min 47.00 max 50.50	min 46.70 max 49.60	min 14.40 max 18.60

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Melt Source:
											Each	Total
C07H0702	6061	0.70	0.28	0.32	0.10	0.92	0.10	0.01	0.02	97.55	0.05	0.15
C07H0703	6061	0.68	0.28	0.31	0.10	0.88	0.09	0.01	0.01	97.64	0.05	0.15
											United States of America	United States of America

Print Date: 4/1/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 32/7/9

THYSSENKRUPP MATERIALS NA

PO/Rel 20295

Certificate of Mill Test Results

BL PBC-829158-004

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
1.00" x 4.00" x 144.0000"

PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

[Signature]

26Jun13
Pg 1/1



TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST REPORT

BILL TO THYSSENKRUPP MATERIALS NA	Part Code 1	0.51	THE NUMBER S 4657	DATE OF SHIPMENT 3/21/2013	EXTRUDEX ORDER NO. 155110 - 6	MANIFEST NO. 284769
SHIP TO THYSSENKRUPP MATERIALS NA	CUSTOMER PO PEC-246198		ALLOY 6061	TEMPER T6511	SALESMAN FORBES DODWELL	
SO DESCRIPTION 1"x4" FB	CUSTOMER PART NUMBER 1-1000-4000		PART DESCRIPTION			CERTIFICATION MILL TEST ASTM B221-12

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Mar/20/13	42.6	38.5	13.90	87.9, 88.5, 88.2	<i>per 13-de-28</i>

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 20028 6061	0.56	0.22	0.19	0.06	0.83	0.04	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

[Signature]

David Natale
Quality Control Manager

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

1 - CUSTOMER COPY

MILL TEST REPORT

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511
1.00" x 6.00" x 144.0000"

P.O./Rel 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-829158-005

261 un13
Pg 1/1



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
173807	5

BILL TO

ThyssenKrupp Materials NA

MANIFEST NUMBER

187246

DIE NUMBER

MRB1826

DATE OF SHIPMENT

4/12/2013

CERTIFICATION

ASTM-B221-12a StencilCont

SHIP TO

ThyssenKrupp Materials NA, Toronto

CUSTOMER PO

PEC-247407

ALLOY/TEMPER

6061-T6511

SALESPERSON

David Schroeder

SPECIFICATION

AMS-QQA-200/8 - 1997

Quantity Certified 1,197 lbs 14 pcs

CUSTOMER PART NUMBER

MRB1826

DESCRIPTION

MCRB 1,000x6,000

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Mechanical Properties

Tests Lot No.

4 201306967

Test Date

4/11/13

Ultimate Tensile Strength (KSI)

min 48.30 max 50.80

Yield Strength (KSI)

min 46.40 max 49.20

Percent Elongation

min 15.20 max 17.90

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source:
0313147	6061	0.74	0.38	0.31	0.10	0.90	0.11	0.07	0.02	97.37	0.05	0.15	United States of America
0313150	6061	0.76	0.35	0.32	0.10	0.86	0.11	0.07	0.02	97.41	0.05	0.15	United States of America

Print Date: 4/12/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 8/2/11 - UMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511
1.250" x 5.00" x 144.0000"
PART NO. OFFERING

PO/Rel 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PBC-829158-006
26Jun13
Pg 1/1



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
177359	3

BILL TO
ThyssenKrupp Materials NA
SHIP TO
ThyssenKrupp Materials NA, Toronto
Quantity Certified 712 lbs 8 pcs

MANIFEST NUMBER 191676
DIE NUMBER MRB1589
DATE OF SHIPMENT 5/30/2013
CUSTOMER PO PEC-248697
ALLOY/TEMPER 6061-T6511
SALES PERSON David Schroeder
CUSTOMER PART NUMBER MRB1589
DESCRIPTION MCRB 1.250x5.000

CERTIFICATION
ASTM-B221-12a StencilCont
SPECIFICATION
AMS-QQA-2008 - 1997

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	201310704	5/24/13	min 46.80 max 48.40	min 45.00 max 46.90	min 16.20 max 17.25

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others Total	Melt Source:
0513072	6061	0.72	0.35	0.32	0.09	0.91	0.10	0.08	0.02	97.41	0.05	0.15	United States of America
1112155	6061	0.72	0.39	0.31	0.10	0.86	0.10	0.07	0.03	97.42	0.06	0.15	United States of America

Print Date: 5/30/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 6/29/11 - UMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

2.00" x 5.00" X 144.0000"

PART NO.

PO/Rel 20295

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-829158-007

26Jun13

Signed by: 

Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-246395-6		CUSTOMER PART NUMBER: ALREC00850		PRODUCT DESCRIPTION: 2.000 X 5.000 SC RECT BAR	
KAISER ORDER NUMBER: 638613	LINE ITEM: 006	SHIP DATE: 03/05/2013	KAISER LOT NUMBER: Z00657003	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 847.000 LB	QUANTITY: 6.000 PCS	B/L NUMBER: 605678	DIAM/DA/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00657003	0001	1	46.4	42.9	15.3	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
102424	.74	.29	.29	.09	.93	.09	.05	.03	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-12 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 (2007) UNS#A96061
(T6511 also conforms to T6-nct applicable to other tempers)

Miscellaneous Notes

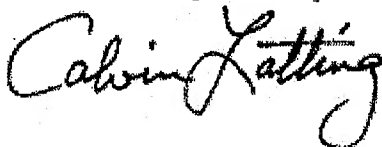
MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Latting, Quality & Technology Manager



Plant Serial: 00080410
Kaiser Order Number: 638613
Line Item: 006



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20295

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 1 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
6/23/2013

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

REVISED

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	List Price	Disc %	Discounted Unit Price	Extended Price
1	M6061T6B0.500X02.000 MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQA-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221	6061-T6 Bar .500 x 2.00	6/28/2013 Yes 6/28/2013		12.00 f				\$30.00
Line Total:									\$30.00
2	M6061T6B0.500X02.500 MATERIAL SPEC'S SAME AS ABOVE	6061-T6 Bar .500 x 2.50	6/28/2013 Yes 6/28/2013		12.00 f				\$36.00
Line Total:									\$36.00
3	M6061T6B1.000X02.000 MATERIAL SPEC'S SAME AS ABOVE	6061-T6 Bar 1.00 x 2.00	6/28/2013 Yes 6/28/2013		24.00 f				\$110.40

6/23/2013

Note:

6/25/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20295**

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 2 of 3

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Line Total: \$110.40

4	M6061T6B1.000X04.000	6061-T6 Bar 1.00 x 4.00	6/28/2013	24.00	✓	\$214.80
			Yes	f		
	MATERIAL SPEC'S SAME AS ABOVE		6/28/2013			

Line Total: \$214.80

5	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	6/28/2013	12.00	✓	\$173.04
			Yes	f		
	MATERIAL SPEC'S SAME AS ABOVE		6/28/2013			

Line Total: \$173.04

6	M6061T6B1.250X04.500	6061-T6 Bar 1.25 X 4.50	6/28/2013	24.00	✓	\$334.40
			Yes	f		
	MATERIAL SPEC'S SAME AS ABOVE NOTE: 1.250" X 5.000" ACCEPTABLE		6/28/2013			

43/6/13

Line Total: \$334.40

Note:

6/25/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20295**

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 3 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

7	M6061T6B2.000X04.500	6061T6 Bar 2.00 x 4.500	6/28/2013	12.00	f	✓	\$308.57
			Yes				
	MATERIAL SPEC'S SAME AS ABOVE NOTE: 2.000" X 5.000" ACCEPTABLE		6/28/2013			14 3/8/24	

Line Total: \$308.57

8	M6061T6S.080	6061-T6 .080 Sheet	6/28/2013	336.00			\$1,017.72
			Yes		sf		
	MATERIAL: 6061 T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025/AMS 4027 OR ASTM B209		6/28/2013				

Line Total: \$1,017.72

9	M6061T6S.040	6061-T6 .040 Sheet	7/5/2013	384.00			\$588.00
			Yes		sf		
	MATERIAL SPEC'S SAME AS ABOVE		7/5/2013				

Line Total: \$588.00

PO Total: \$2,812.93

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent
Certificate of Conformity or Material Certification required ☒ YES ☐ NO

Change Nbr: 2 Change Date: 6/25/2013